

# Usage policy of new chemical

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# Usage policy of chemical

- **Experimental overview**

The solvent (GBL) will be used to prepare the solution of Iodine based perovskite solution under an inert gas atmosphere in GB-3 in OE lab (CEN). Detail description is provided under *Procedure*.

- **Details of chemicals used along with the chemical applied for clearance (if any)**

The solvent will be used to dissolve perovskite solutions (Iodine based) to make single crystals of Iodine based perovskite (contain Pb).

- **Procedure**

1. Wear blue gloves over the black ones while handling the solvent (GBL) inside GB-3.
2. Wear basic mask if material handled outside glovebox (ex- during crystal formation).
3. Use syringe to extract the required amount of solvent from the bottle.
4. The solution must then be transferred to the vial (with press cap and screw cap) in which the perovskite forming solute has been (or has to be) weighed.
5. Use parafilm to close the bottle of GBL solvent after its use is over.

Contd.

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- **Place where experiment will be carried out**

Glovebox 3 in Organic Electronics Lab (CEN)

- **Precautionary measures**

1. The solvent is not a fire hazardous material and is acutely toxic so primary precautions, mentioned below, should be followed.
2. Wear protective eye wear, gloves, and lab coat.
3. Wear basic mask if material handled outside glovebox.